PHOTOCATALYST AND PRODUCTION THEREOF

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Abstract

PROBLEM TO BE SOLVED: To effectively use light energy such as solar light and sufficiently provide stain decomposing and hazing-preventive properties to various kinds of substrates such as glass, tiles, etc., by forming a solid acid on a semiconductive photocatalyst surface.

SOLUTION: This catalyst having excellent stain-proof, hazing-preventive, mildewproof, deodorizing, and anti-bacterial properties is produced by forming a solid acid on a semiconductive photocatalyst surface and the semiconductor photocatalyst is preferably an oxide semiconductor and especially one or more substances selected from TiO2, Bi2 O3, In2 O3, WO3, ZnO, SrTiO3, etc., are used. Also, the solid acid to be used consists of oxides as a carrier (carrier oxides) and oxides (deposited oxides) deposited on the surface of the carrier and as the carrier oxides, one or more oxides selected fromZrO2, SrTiO3, Fe2 'O3, HfO2, SiO2, etc., are preferable and as the deposited oxides, one or more oxides selected from SO4, WO3, MoO3, and B2 O3 are preferable.

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